Airings Database Structure

Channel-Week	Day of Week	Start Time	SeriesEpisode
CH1-W1	Monday	8:00 pm	A1
CH1-W1	Tuesday	8:00 pm	B1
CH2-W1	Friday	10:00 pm	C1
CH1-W2	Monday	8:00 pm	A2
CH1-W2	Tuesday	8:00 pm	B2
CH1-W2	Wednesday	9:00 pm	B3
CH2-W2	Friday	10:00 pm	C2
CH1-W3	Thursday	9:00 pm	B4
CH3-W3	Friday	10:00 pm	C2
CH1-W4	Monday	8:00 pm	A3
CH1-W4	Tuesday	8:00 pm	B5
CH2-W4	Friday	10:00 pm	C3
CH2-W4	Saturday	12:00 pm	C1
CH2-W4	Saturday	1:00 pm	C2
CH2-W4	Saturday	2:00 pm	C3
CH3-W4	Wednesday	7:00 pm	D1

FIG. 1

Series Scheduling Expectation (SSE) Database Structure, based on weeks 1-4 of FIG. 1

Channel	Day of Week	Start Time	Series
CH1	Monday	8:00 pm	A
CH1	Tuesday	8:00 pm	B
CH2	Friday	10:00 pm	C
CH3	Wednesday	7:00 pm	D

FIG. 2

Series Scheduling Expectation (SSE) Database Structure, based on weeks 1-3 of FIG. 1

Channel	Day of Week	Start Time	Series
CH1	Monday	8:00 pm	A
CH1	Tuesday	8:00 pm	B
CH2	Friday	10:00 pm	C

FIG. 4

Deviation Database Structure for weeks 1-4, based on the SSE Database Structure of FIG. 2

Channel-Week	Day of Week	Start Time	SeriesEpisode	Deviation Type
CH1-W2	Wednesday	9:00 pm	B3	Series Expansion (SE)
CH1-W1	Monday	8:00 pm	A	Series Preemption (SP)
CH1-W3	Thursday	9:00 pm	B4	Series Move (SM)
CH3-W3	Friday	10:00 pm	C2	Series Move (SM)
CH2-W4	Saturday	12:00 pm	C1, C2, C3	Series Marathon (MA)

FIG. 3

Deviation Database Structure for week 4, based on the SSE Database Structure of FIG. 4

Channel-Week	Day of Week	Start Time	SeriesEpisode	Deviation Type
CH2-W4	Saturday	12:00 pm	C1, C2, C3	Series Marathon (MA)
CH3-W4	Wednesday	7:00 pm	D1	Series Initiation (SI)

FIG. 5

Examples of Conditions

Condition	Description of Condition
1	Overriding Expected Time-Channel
2	1) The TV series has aired on the reference time-channel no more than K weeks of N weeks preceding the reference week; and 2) the TV series has aired on an alternate time-channel during M weeks of the N weeks, wherein: N is an integer that exceeds 1, K is an integer that is no less than 0, and M is an integer of at least 2 and greater than .50N truncated.

FIG. 7

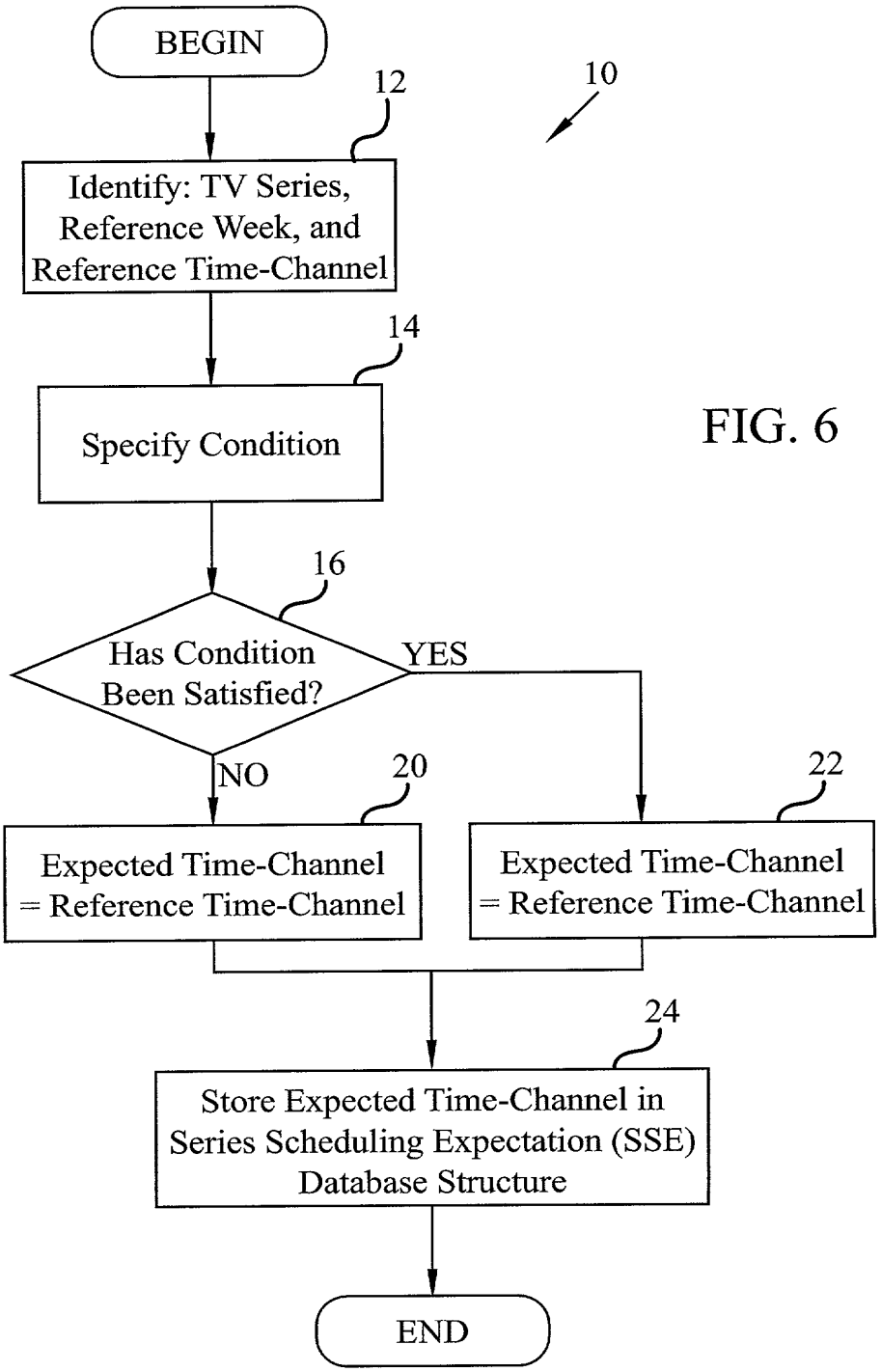
BEGIN
10
12
Identify: TV Series, Reference Week, and Reference Time-Channel
14
Specify Condition
16
Has Condition Been Satisfied?
YES
NO
20
Expected Time-Channel = Reference Time-Channel
22
Expected Time-Channel = Reference Time-Channel
24
Store Expected Time-Channel in Series Scheduling Expectation (SSE) Database Structure
END

FIG. 6

Examples of Combinations of N, K, and M for use with Condition 2 of FIG. 7.

N	K	M
2	0	1
3	0	2
4	0	3
5	0	4
6	0	5
7	1	6
8	1	7
9	1	8
10	1	9
11	1	9
12	1	10
13	1	11
14	1	12
15	1	13
16	1	14
17	1	15
18	1	16
19	1	17
20	2	18
25	2	22
30	3	27
35	3	32
40	4	36
45	4	40
50	5	45

FIG. 8

US 2012/0140849 A1

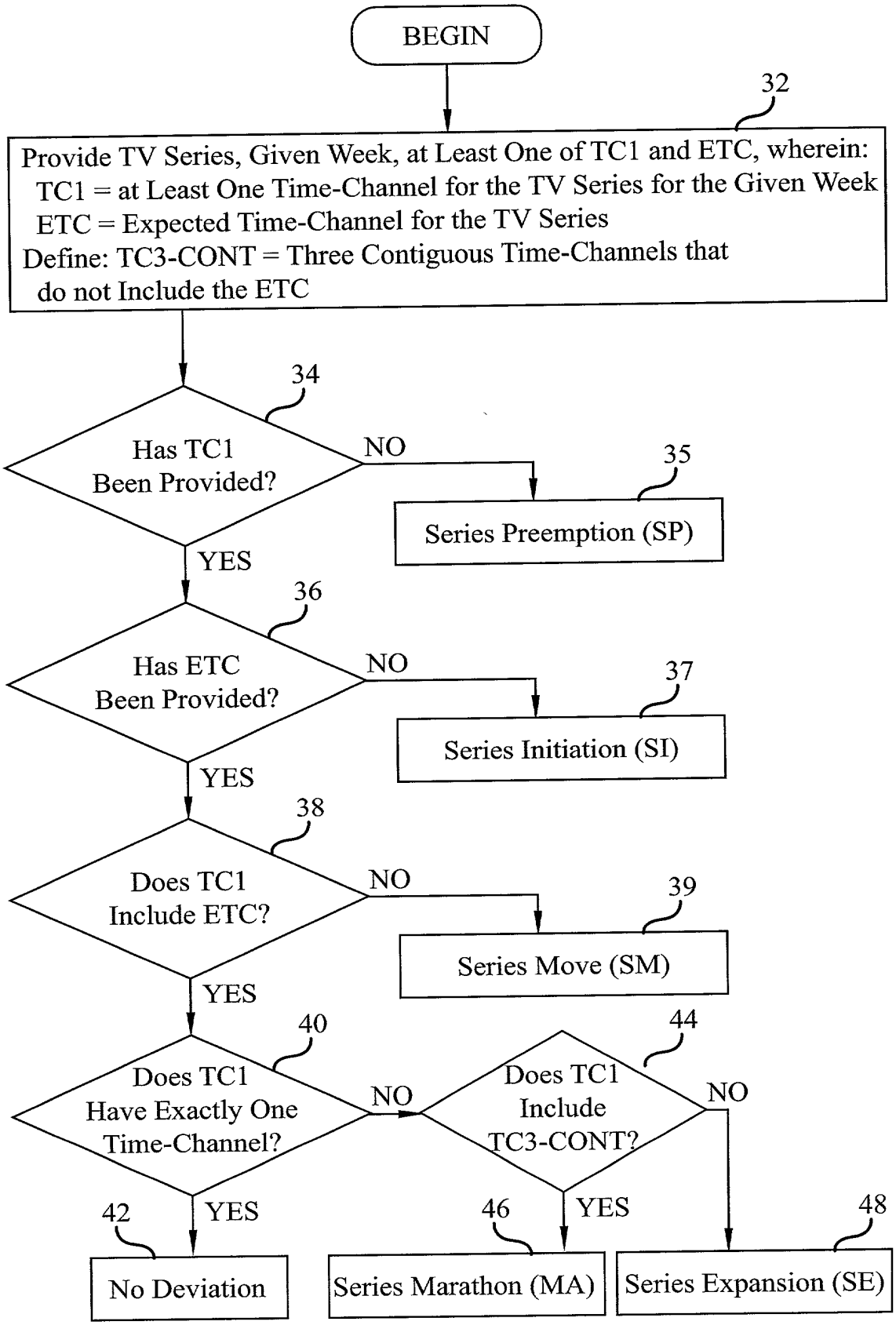
BEGIN
32
Provide TV Series, Given Week, at Least One of TC1 and ETC, wherein:
TC1 = at Least One Time-Channel for the TV Series for the Given Week
ETC = Expected Time-Channel for the TV Series
Define: TC3-CONT = Three Contiguous Time-Channels that do not Include the ETC
34
Has TC1 Been Provided?
NO
35
Series Preemption (SP)
YES
36
Has ETC Been Provided?
NO
37
Series Initiation (SI)
YES
38
Does TC1 Include ETC?
NO
39
Series Move (SM)
YES
40
Does TC1 Have Exactly One Time-Channel?
NO
44
Does TC1 Include TC3-CONT?
NO
42
YES
No Deviation
46
YES
Series Marathon (MA)
48
Series Expansion (SE)

FIG. 9

Deviation Report in Column Format

Title	Expected Week Day	Expected Week Time	Current Week Day	Current Week Time	Channel
Gilmore Girls	Thursday	9:00 pm	Thursday	9:00 pm	WPIX
Who Wants to be a MIllionaire	Thursday	10:00 pm	Thursday	10:00 pm	WTEN

FIG. 10

Deviation Report in Grid Format

Channel	8:00 pm	8:30 pm	9:00 pm	9:30 pm	10:00 pm
WPIX			Gilmore Girls		
WTEN	Who Wants to be a MIllionaire				

FIG. 11

Deviation Report in Text Format

On Thursday, Gilmore Girls has moved to 9:00 pm. on WPIX and Who Wants to be A Millionaire has moved to 8:00 pm on WPIX.

On Friday, The X-files will not be seen.

On Saturday, Modern Marvels will have multiple episodes starting at 10:00 am on The History Channel.

FIG. 12

09405456.042402

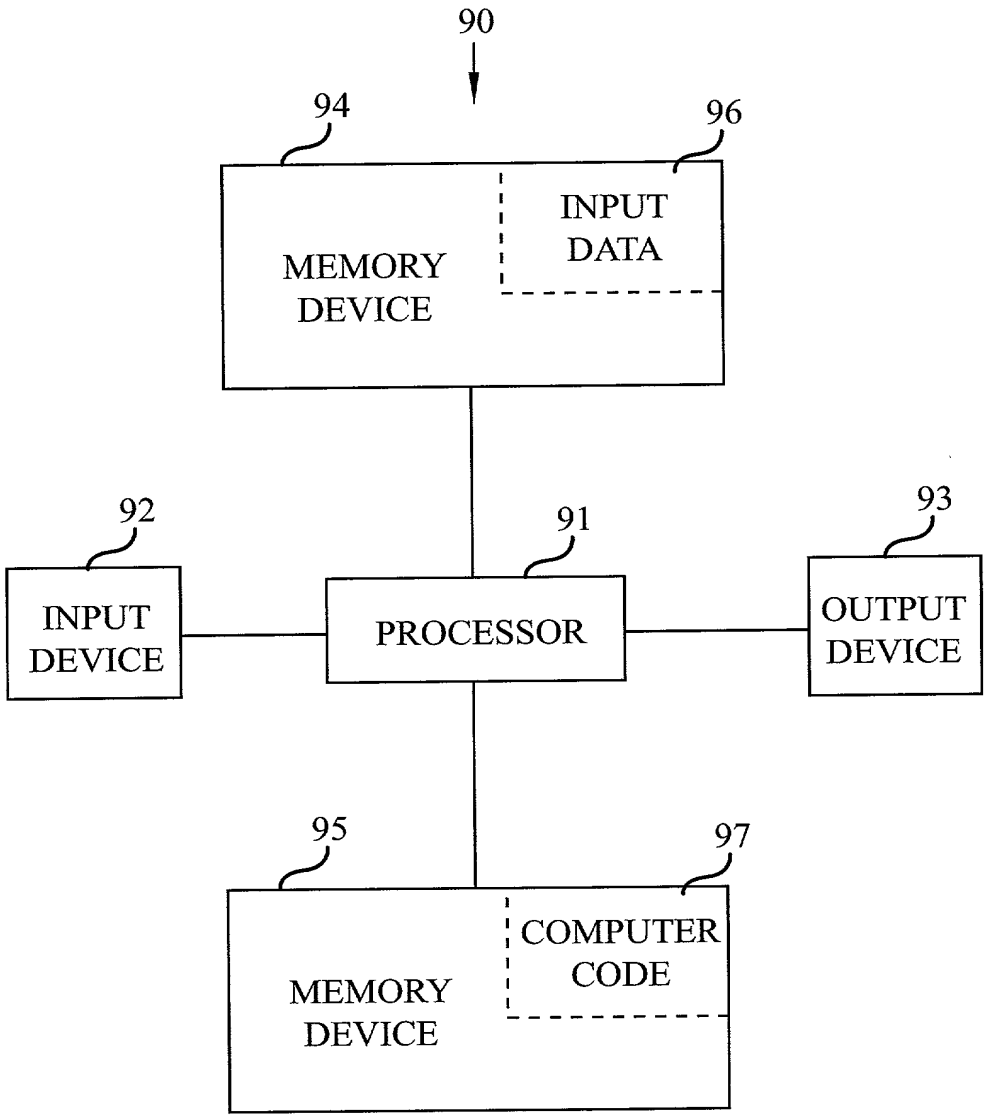
90
94
96
MEMORY DEVICE
INPUT DATA
92
91
93
INPUT DEVICE
PROCESSOR
OUTPUT DEVICE
95
97
MEMORY DEVICE
COMPUTER CODE

FIG. 13